

REMARKS

Claims 1-12 are pending in the application. It is gratefully acknowledged that Claims 6 and 8 remain objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form to include all of the limitations of the base claim and any intervening claims. Claims 1-5, 7 and 9-12 were rejected under 35 U.S.C. §102(e) as being anticipated by Suda et al. (U.S. Patent 6,553,516).

On January 4, 2006, Applicant's representative conducted an interview with the Examiner. A central issue was the address generator and its function recited in Claims 1 and 10, namely, "an address calculator for generating a finally interleaved address using an inter-row permutation pattern $T(j)$, an intra-row permutation pattern increment arrangement value $incr(j)$ and an intra-row permutation basic sequence $s(i)$ provided from the register". The Examiner stated that he was broadly reading the elements of "an inter-row permutation pattern $T(j)$ ", "an intra-row permutation pattern increment arrangement value $incr(j)$ ", and "an intra-row permutation basic sequence $s(i)$ ", and maintained that the admitted prior art and Suda et al. anticipated these elements as claimed.

A second issue discussed in detail during the interview was the fact that to generate a final interleaved address, the interleaver disclosed in Suda et al., as well as interleavers known in the art, must perform inter-row permutation, must perform intra-row permutation, and must generate an intra-row permutation basic sequence. The present invention simply uses the address calculator to calculate the finally interleaved address without the need to perform the actual inter-row permutation, the intra-row permutation, and to generate an intra-row permutation basic sequence. The Examiner stated that calculating the final interleaved address without performing the permutations and calculations was not recited in the claims.

Regarding independent Claim 1, the Examiner states that Suda et al. anticipates all of the elements of this claim. Suda et al. discloses an interleaving method, interleaving apparatus, turbo encoding method, and turbo encoder. Claim 1 recites "an address calculator for generating a

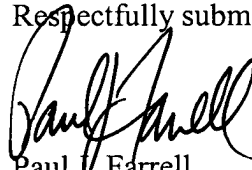
finally interleaved address using an inter-row permutation pattern $T(j)$, an intra-row permutation pattern increment arrangement value $incr(j)$ and an intra-row permutation basic sequence $s(i)$ provided from the register". The Examiner equates the address calculator and its operations with an interleaver disclosed in Suda et al. To generate a final interleaved address, the interleaver disclosed in Suda et al., as well as interleavers known in the art, must perform inter-row permutation, must perform intra-row permutation, and must generate an intra-row permutation basic sequence. The present invention simply uses the address calculator to calculate the finally interleaved address without the need to perform the actual inter-row permutation, the intra-row permutation, and to generate an intra-row permutation basic sequence. Since every element of amended Claim 1 is not taught by Suda et al., the reference cannot anticipate the claim. Based on at least the foregoing, withdrawal of the rejection to independent Claim 1 is respectfully requested.

Regarding Claim 10, the Examiner states that Suda et al. discloses all of the elements of this claim. In a manner similar to the apparatus in Claim 1, the method of Claim 10 calculates the final interleaver address without the need to actually perform the inter-row permutation, the intra-row permutation, and to generate an intra-row permutation basic sequence. Since every element of amended Claim 10 is not taught by Suda et al., the reference cannot anticipate the claim. Based on at least the foregoing, withdrawal of the rejection to independent Claim 10 is respectfully requested.

Independent Claims 1 and 10 are believed to be in condition for allowance. Without conceding the patentability per se of dependent Claims 2-5, 7, 9, 11 and 12, these are likewise believed to be allowable by virtue of their dependence on their respective amended independent claims. Accordingly, reconsideration and withdrawal of the rejections of dependent Claims 2-5, 7, 9, 11 and 12 is respectfully requested.

Accordingly, all of the claims pending in the Application, namely, Claims 1-12, are believed to be in condition for allowance. Should the Examiner believe that a telephone conference or personal interview would facilitate resolution of any remaining matters, the Examiner may contact Applicant's attorney at the number given below.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Paul J. Farrell", written over the printed name.

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